

## CLAIMS:

1. An electroluminescent display comprising a common substrate and an array of electroluminescent devices disposed on the common substrate, wherein each of said electroluminescent devices comprise an electroluminescent layer which is sandwiched between a first and a second electrode, a color converting material which is  
5 capable of changing light emitted by the electroluminescent layer into light having a longer wavelength and a stack of  $2n + 1$  transparent dielectric layers wherein  $n = 0, 1, 2, 3, \dots$ ,  
said transparent dielectric layers having a high refractive index of  $n > 1.7$  or a low refractive index of  $n \leq 1.7$ ,  
10 said transparent dielectric layers having a high refractive index  $n$  being arranged in alternating manner with said transparent dielectric layers having a low refractive index  $n$ ,  
said stack of  $2n + 1$  transparent dielectric layers being arranged adjacent to one of the electrodes and a dielectric transparent layer having a high refractive index  
15  $n$  adjoining said electrode.
2. An electroluminescent display as claimed in claim 1, wherein said transparent dielectric layers having a refractive index  $n > 1.7$  is selected from the group consisting of  $\text{TiO}_2$ ,  $\text{ZnS}$  and  $\text{SnO}_2$ .  
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3. An electroluminescent display as claimed in claim 1, wherein said transparent dielectric layers having a refractive index  $n \leq 1.7$  is selected from the group consisting of  $\text{SiO}_2$ ,  $\text{MgF}_2$  and alumino silicates.

4. An electroluminescent display as claimed in claim 1, wherein said transparent dielectric layers having a high refractive index  $n$  is ZnS and said transparent dielectric layers having a low refractive index  $n$  is  $\text{MgF}_2$ .
5. An electroluminescent display as claimed in claim 1, wherein said electroluminescent device is an active matrix device having a pixelated first electrode.
6. An electroluminescent display as claimed in claim 1, wherein a capping layer is placed adjacent to the second electrode and wherein the color converter material is embedded in or placed on top of the capping layer.
7. An electroluminescent display as claimed in one of the claims 1 to 6, wherein the color converting material is selected from the group consisting of  $(\text{Ba}, \text{Sr})_2\text{SiO}_4:\text{Eu}$ ,  $\text{SrGa}_2\text{S}_4:\text{Eu}$ ,  $\text{CaS}:\text{Ce}$ ,  $\text{Ba}_2\text{ZnS}_3:\text{Ce}, \text{K}$ , Lumogen yellow ED206,  $(\text{Sr}, \text{Ca})_2\text{SiO}_4:\text{Eu}$ ,  $(\text{Y}, \text{Gd})_3(\text{Al}, \text{Ga})_5\text{O}_{12}:\text{Ce}$ ,  $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}$ , Lumogen F orange 240,  $\text{SrGa}_2\text{S}_4:\text{Pb}$ ,  $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}$ ,  $\text{SrS}:\text{Eu}$ , Lumogen F red 300,  $\text{Ba}_2\text{Si}_5\text{N}_8:\text{Eu}$ ,  $\text{Ca}_2\text{Si}_5\text{N}_8:\text{Eu}$ ,  $\text{CaSiN}_2:\text{Eu}$  and  $\text{CaS}:\text{Eu}$ .
8. An electroluminescent device comprising an electroluminescent layer which is sandwiched between a first and a second electrode, a color converting material which is capable of changing light emitted by the electroluminescent layer into light having a longer wavelength and a stack of  $2n + 1$  transparent dielectric layers wherein  $n = 0, 1, 2, 3, \dots$ ,  
     said transparent dielectric layers having a high refractive index of  $n > 1.7$   
     or a low refractive index of  $n \leq 1.7$ ,  
     said transparent dielectric layers having a high refractive index  $n$  being arranged in alternating manner with said transparent dielectric layers having a low refractive index  $n$ ,  
     said stack of  $2n + 1$  transparent dielectric layers being arranged adjacent to one of the electrodes and a dielectric transparent layer having a high refractive index  $n$  adjoining said electrode.